

# Course Material

## Metabase

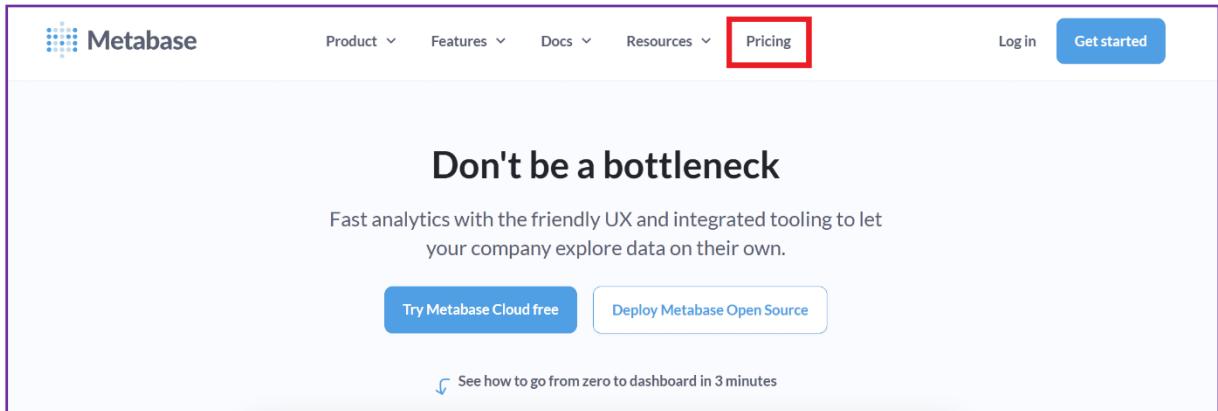
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### Installation

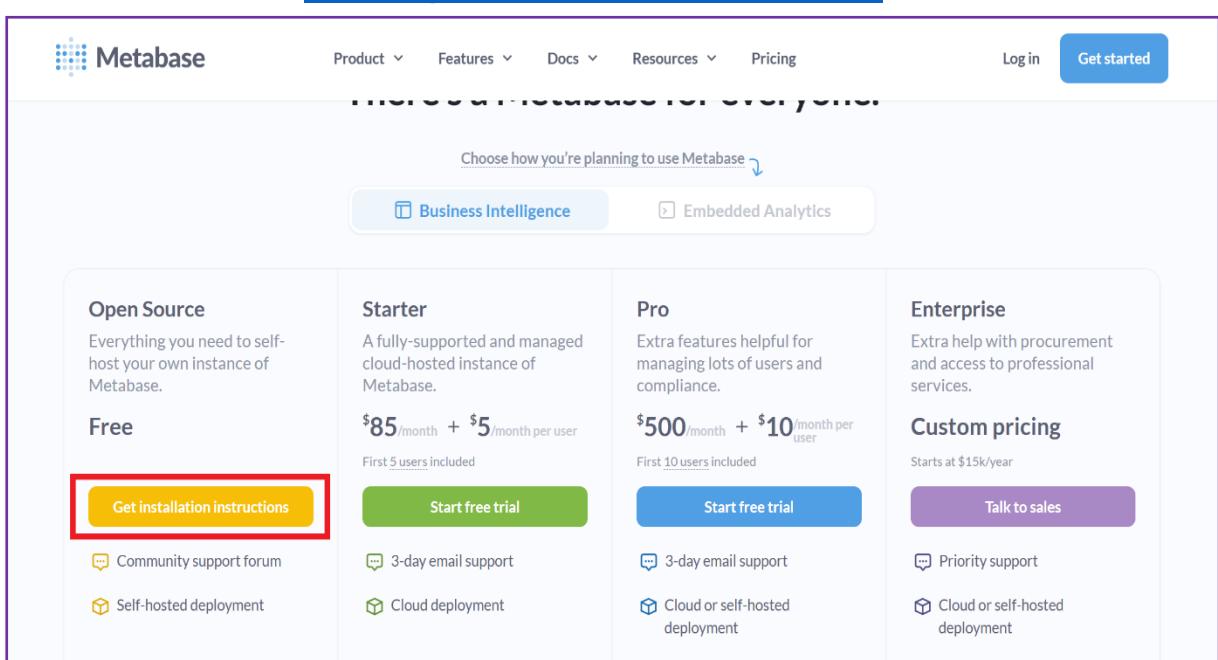
#### Sign Up/Log In:

1. Go to <https://www.metabase.com/>
2. Click on "Pricing" to get Metabase Open-Source installation instructions.

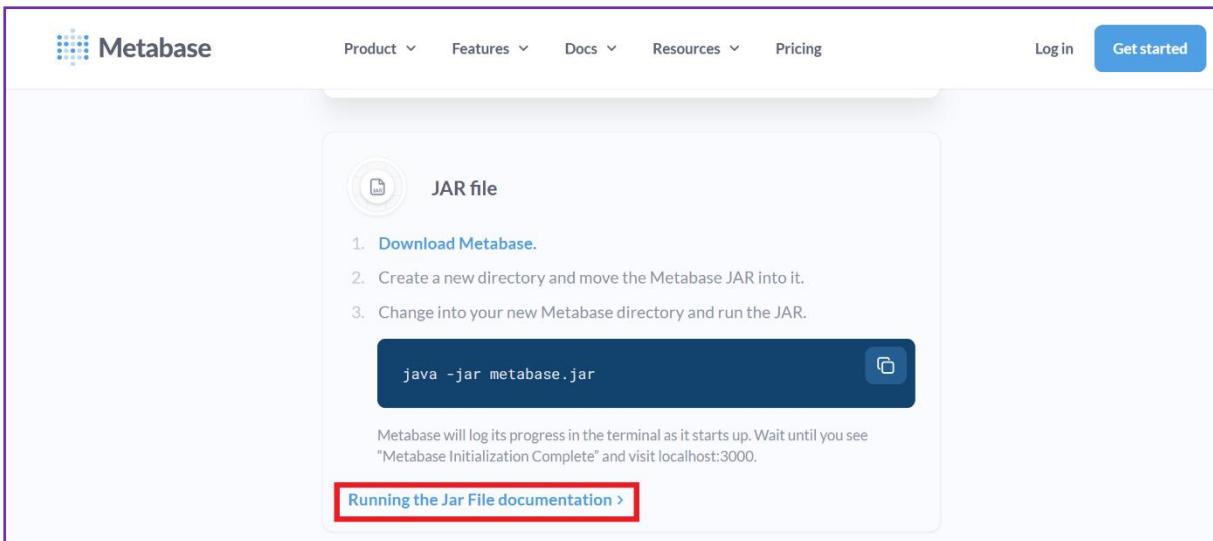


The screenshot shows the Metabase website's Pricing page. At the top, there is a navigation bar with links for Product, Features, Docs, Resources, and Pricing (which is highlighted with a red box). Below the navigation bar, the main heading is "Don't be a bottleneck". A sub-headline reads "Fast analytics with the friendly UX and integrated tooling to let your company explore data on their own." There are two buttons: "Try Metabase Cloud free" and "Deploy Metabase Open Source". At the bottom of the page, there is a link "See how to go from zero to dashboard in 3 minutes" with a small icon.

3. Click on **Get installation instructions** which will open a new page. Scroll down to click on [Running the Jar File documentation](#).



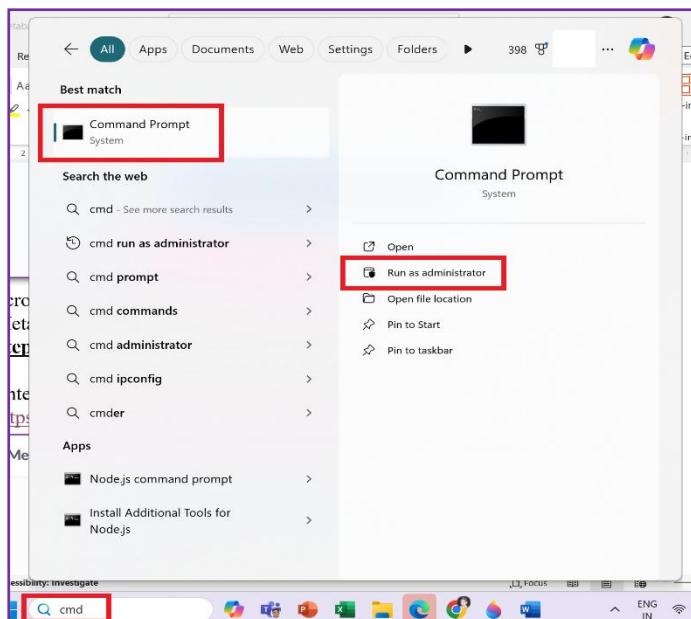
The screenshot shows the Metabase website's Pricing page. The navigation bar is identical to the previous screenshot. The main content area has a heading "Choose how you're planning to use Metabase" with a dropdown arrow. Below it, there are two tabs: "Business Intelligence" (selected) and "Embedded Analytics". The page is divided into four sections representing different pricing plans: "Open Source" (Free), "Starter", "Pro", and "Enterprise". Each section contains a brief description, price, user count, and support details. The "Open Source" section features a prominent yellow button labeled "Get installation instructions" (which is highlighted with a red box). The "Starter" section includes a green "Start free trial" button. The "Pro" and "Enterprise" sections include blue "Start free trial" buttons. The "Enterprise" section also includes a purple "Talk to sales" button.



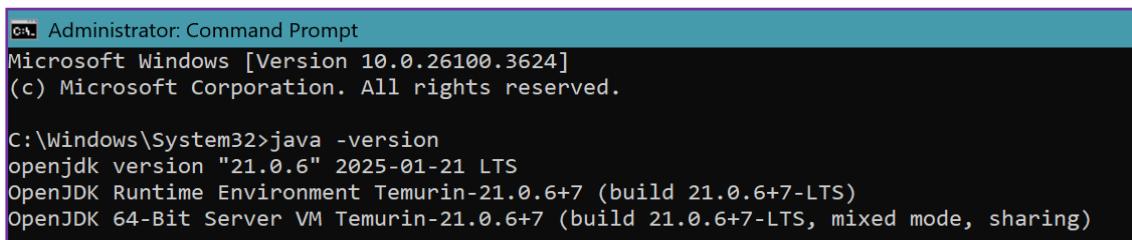
The screenshot shows the Metabase JAR file documentation page. At the top, there's a navigation bar with links for Product, Features, Docs, Resources, Pricing, Log in, and Get started. Below the navigation, there's a section titled "JAR file" with a sub-section "1. Download Metabase." It lists three steps: "Create a new directory and move the Metabase JAR into it.", "Change into your new Metabase directory and run the JAR.", and provides a command-line instruction: "java -jar metabase.jar". A note below says "Metabase will log its progress in the terminal as it starts up. Wait until you see 'Metabase Initialization Complete' and visit localhost:3000." At the bottom, there's a link "Running the Jar File documentation >".

4. Scroll down to the topic **Local installation** and follow the steps to run Metabase.

**Step 1:** Open the Command Prompt by typing "cmd" in the Windows search bar, then click **Run as administrator**.

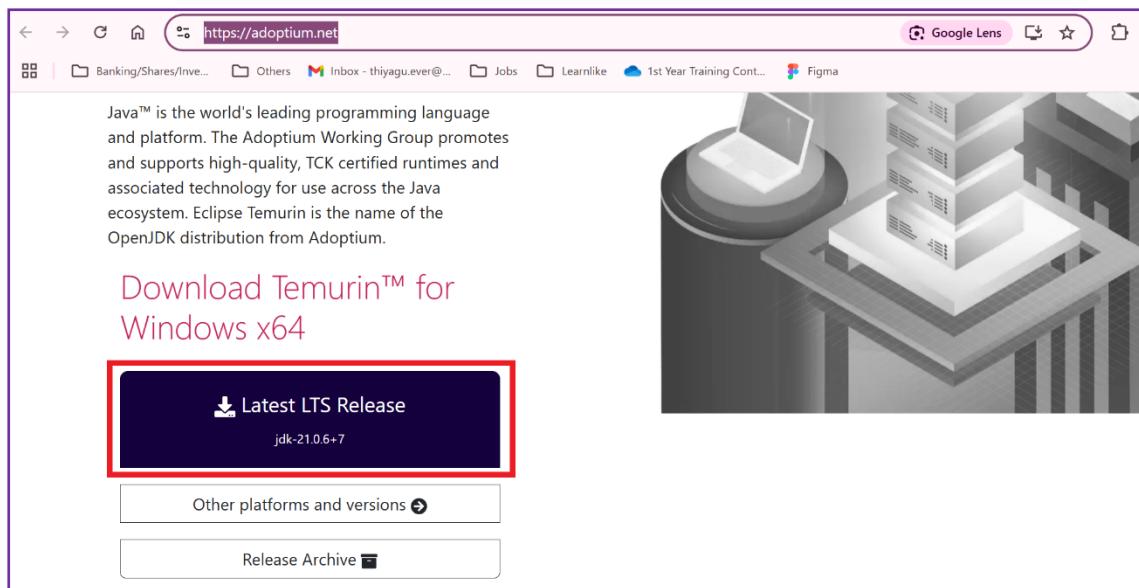


**Step 2:** Check the installed Java version by entering the command **java -version**. If a version is displayed, proceed to the next step. However, if Java is not installed or the version is outdated, download and install the latest version from the **Eclipse Temurin** before continuing.



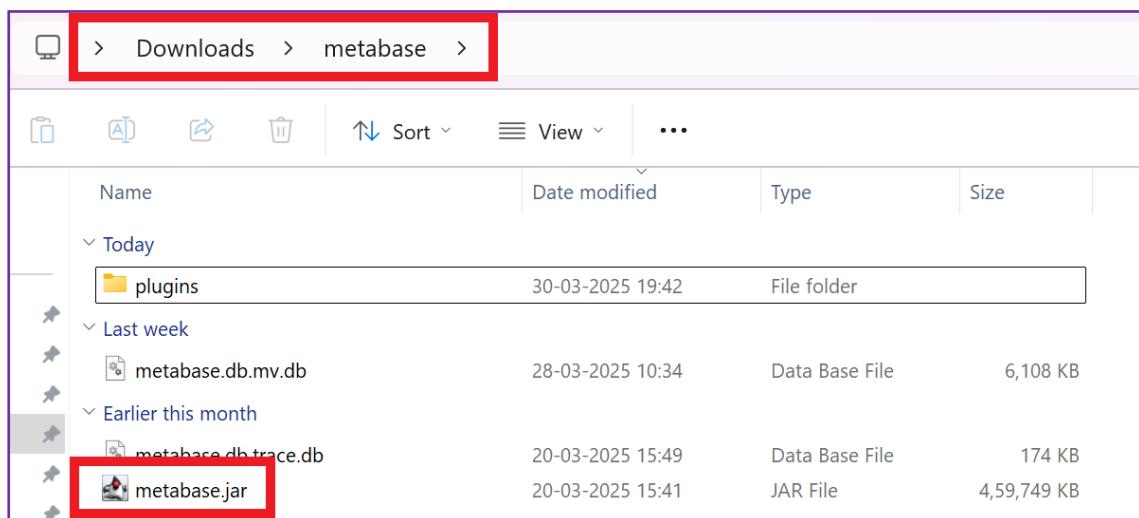
```
C:\> Administrator: Command Prompt
Microsoft Windows [Version 10.0.26100.3624]
(c) Microsoft Corporation. All rights reserved.

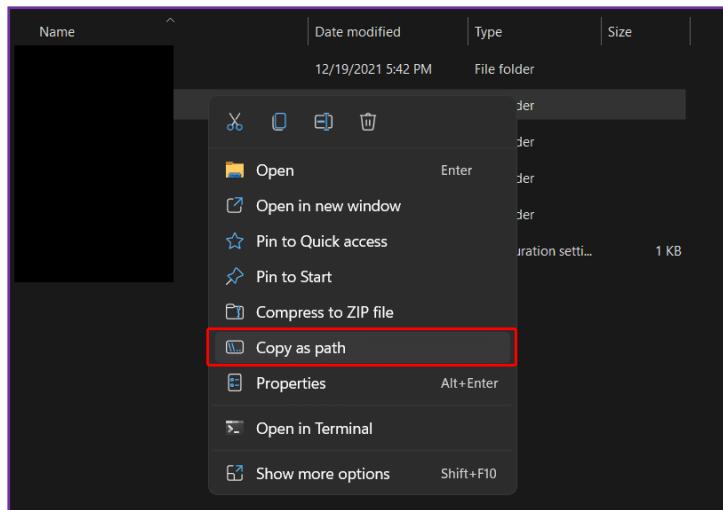
C:\Windows\System32>java -version
openjdk version "21.0.6" 2025-01-21 LTS
OpenJDK Runtime Environment Temurin-21.0.6+7 (build 21.0.6+7-LTS)
OpenJDK 64-Bit Server VM Temurin-21.0.6+7 (build 21.0.6+7-LTS, mixed mode, sharing)
```



**Step 3:** After installing Java, open the Command Prompt again and check the Java version by running the command `java -version` to ensure it is properly installed. Once confirmed, proceed to download the [Metabase OSS JAR file](#) from the official Metabase website.

**Step 4:** Create a new folder named `metabase` and move the downloaded JAR file into this folder. Then, right-click on the `metabase` folder and select **Copy as path** to copy its file path. Open the Command Prompt and type `cd {copied file path}` (for example, `cd C:\Users\Thiyagarajan\Downloads\metabase`) to change the directory to the Metabase folder.





```
c:\ Administrator: Command Prompt
Microsoft Windows [Version 10.0.26100.3624]
(c) Microsoft Corporation. All rights reserved.

C:\Windows\System32>cd C:\Users\Thiyagarajan\Downloads\metabase
```

```
c:\ Administrator: Command Prompt
Microsoft Windows [Version 10.0.26100.3624]
(c) Microsoft Corporation. All rights reserved.

C:\Windows\System32>cd C:\Users\Thiyagarajan\Downloads\metabase

C:\Users\Thiyagarajan\Downloads\metabase>
```

**Step 5:** Run the command **java --add-opens java.base/java.nio=ALL-UNNAMED -jar metabase.jar** to start Metabase. This will initialize the application, and once the setup is complete, you can access Metabase through your web browser at <http://localhost:3000>

```
c:\ Administrator: Command Prompt
Microsoft Windows [Version 10.0.26100.3624]
(c) Microsoft Corporation. All rights reserved.

C:\Windows\System32>cd C:\Users\Thiyagarajan\Downloads\metabase

C:\Users\Thiyagarajan\Downloads\metabase>java --add-opens java.base/java.nio=ALL-UNNAMED -jar metabase.jar
```

```

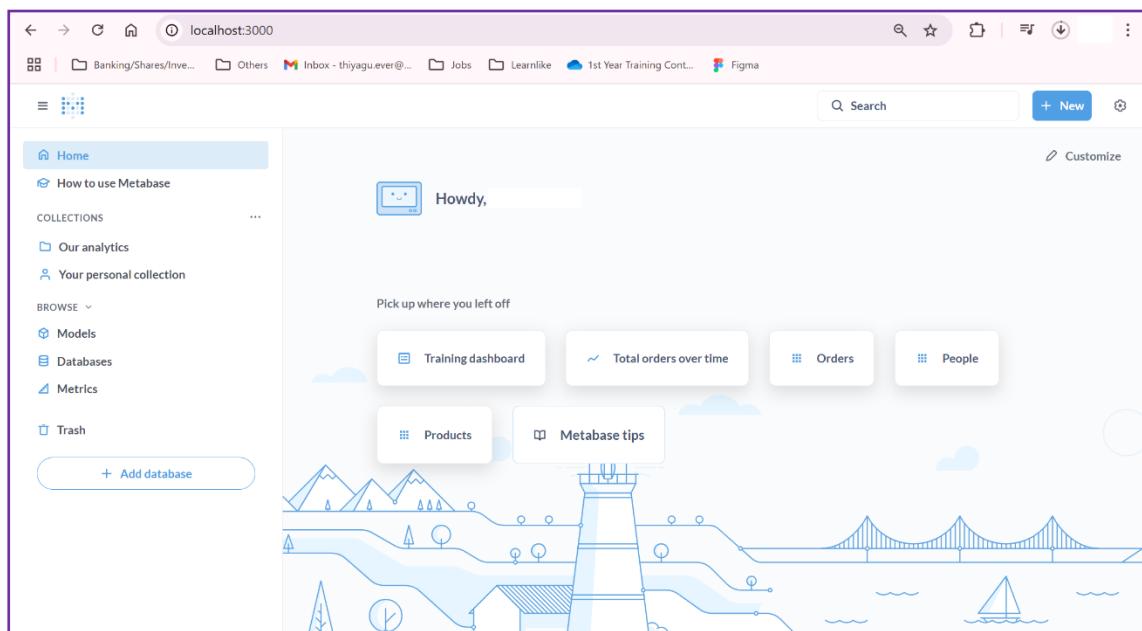
Administrator: Command Prompt - java -add opens java.base/java.nio=ALL-UNNAMED -jar metabase.jar
2025-03-30 20:05:57,940 INFO core.SchedulerSignalerImpl :: Initialized Scheduler Signaller of type: class org.quartz.core.SchedulerSignalerImpl
2025-03-30 20:05:57,940 INFO core.QuartzScheduler :: Quartz Scheduler v.2.3.2 created.
2025-03-30 20:05:57,948 INFO jdbcjobstore.JobStoreTX :: Using db table-based data access locking (synchronization).
2025-03-30 20:05:57,955 INFO jdbcjobstore.JobStoreTX :: JobStoreTX initialized.
2025-03-30 20:05:57,958 INFO core.QuartzScheduler :: Scheduler meta-data: Quartz Scheduler (v2.3.2) 'MetabaseScheduler' with instanceId 'Thiyagu-lenovo1743345357856'
Scheduler class: 'org.quartz.core.QuartzScheduler' - running locally.
NOT STARTED.
Currently in standby mode.
Number of jobs executed: 0
Using thread pool 'org.quartz.simpl.SimpleThreadPool' - with 10 threads.
Using job-store 'org.quartz.impl.jdbcjobstore.JobStoreTX' - which supports persistence. and is clustered.

2025-03-30 20:05:57,959 INFO impl.StdSchedulerFactory :: Quartz scheduler 'MetabaseScheduler' initialized from default resource file in Quartz package: 'quartz.properties'

2025-03-30 20:05:57,959 INFO impl.StdSchedulerFactory :: Quartz scheduler version: 2.3.2
2025-03-30 20:05:57,959 INFO core.QuartzScheduler :: Scheduler 'MetabaseScheduler_$_Thiyagu-lenovo1743345357856' paused.
2025-03-30 20:05:57,959 INFO metabase.task :: Task scheduler initialized into standby mode.

2025-03-30 20:05:58,103 INFO metabase.task :: Initializing task Cache
2025-03-30 20:05:58,103 INFO metabase.task :: Initializing task SyncDatabases
2025-03-30 20:05:58,146 INFO tsK.sync-databases :: Updated default schedules for 0 databases
2025-03-30 20:05:58,147 INFO metabase.task :: Initializing task PersistRefresh
2025-03-30 20:05:58,172 INFO metabase.task :: Initializing task CheckForNewVersions
2025-03-30 20:05:58,202 INFO metabase.task :: Initializing task SearchIndexReindex
2025-03-30 20:05:58,220 INFO metabase.task :: Initializing task SendNotifications
2025-03-30 20:05:58,220 INFO metabase.task :: Initializing task PersistPrune
2025-03-30 20:05:58,237 INFO metabase.task :: Initializing task SendAnonymousUsageStats
2025-03-30 20:05:58,250 INFO metabase.task :: Initializing task ModelIndexValues
2025-03-30 20:05:58,253 INFO metabase.task :: Initializing task RefreshslackChannelsAndUsers
2025-03-30 20:05:58,269 INFO metabase.task :: Initializing task BackfillQueryField
2025-03-30 20:05:58,294 INFO metabase.task :: Initializing task TruncateAuditTables
2025-03-30 20:05:58,304 INFO metabase.task :: Initializing task SearchIndexUpdate
2025-03-30 20:05:58,305 INFO metabase.task :: Initializing task SendPulses
2025-03-30 20:05:58,323 INFO metabase.task :: Initializing task SendWarnPulseRemovalEmail
2025-03-30 20:05:58,332 INFO metabase.task :: Initializing task SearchIndexInit
2025-03-30 20:05:58,340 INFO metabase.task :: Initializing task SessionCleanup
2025-03-30 20:05:58,349 INFO metabase.task :: Initializing task SendFollowUpEmails
2025-03-30 20:05:58,359 INFO metabase.task :: Initializing task SendCreatorSentimentEmails
2025-03-30 20:05:58,370 INFO metabase.task :: Initializing task TaskHistoryCleanup
2025-03-30 20:05:58,383 INFO metabase.task :: Initializing task SweepQueryAnalysis
2025-03-30 20:05:58,407 INFO jdbcjobstore.JobStoreTX :: ClusterManager: detected 1 failed or restarted instances.
2025-03-30 20:05:58,407 INFO jdbcjobstore.JobStoreTX :: ClusterManager: Scanning for instance "Thiyagu-lenovo1743345357856"'s failed in-progress jobs.
2025-03-30 20:05:58,413 INFO jdbcjobstore.JobStoreTX :: ClusterManager: .....Cleared-up 1 other failed job(s).
2025-03-30 20:05:58,421 INFO core.QuartzScheduler :: Scheduler 'MetabaseScheduler_$_Thiyagu-lenovo1743345357856' started.
2025-03-30 20:05:58,421 INFO metabase.task :: Task scheduler started
2025-03-30 20:05:58,437 INFO jdbcjobstore.JobStoreTX :: Handling 2 trigger(s) that missed their scheduled fire-time.

```



The screenshot shows the Metabase dashboard at localhost:3000. The top navigation bar includes links for Banking/Shares/Inve..., Others, Inbox - thiagu.ever@..., Jobs, Learnlike, 1 Year Training Cont..., and Figma. A search bar and a 'New' button are also present.

The left sidebar contains a 'Home' section with a 'How to use Metabase' link, a 'COLLECTIONS' section with 'Our analytics' and 'Your personal collection' options, a 'BROWSE' section with 'Models', 'Databases', 'Metrics', and 'Trash' options, and a '+ Add database' button. A 'Customize' link is located in the top right corner of the sidebar.

The main dashboard area features a central card with the text 'Howdy,' and a message 'Pick up where you left off.' Below this are several cards: 'Training dashboard', 'Total orders over time', 'Orders', 'People', 'Products', and 'Metabase tips'. The background of the dashboard is a stylized illustration of a coastal landscape with mountains, clouds, and a sailboat.

## Metabase – User Guide

- Set up your Metabase account by entering your details and following the on-screen steps. You can refer to the demo video for guidance. Once done, you'll be directed to the Metabase dashboard to start analysing data.

**Note:** Enter the organization or institution name in the company name field.

Metabase

**Tell us a bit about yourself**  
We'll only use this information to improve your Metabase experience

First name

Last name

Company name

Where is your data stored?

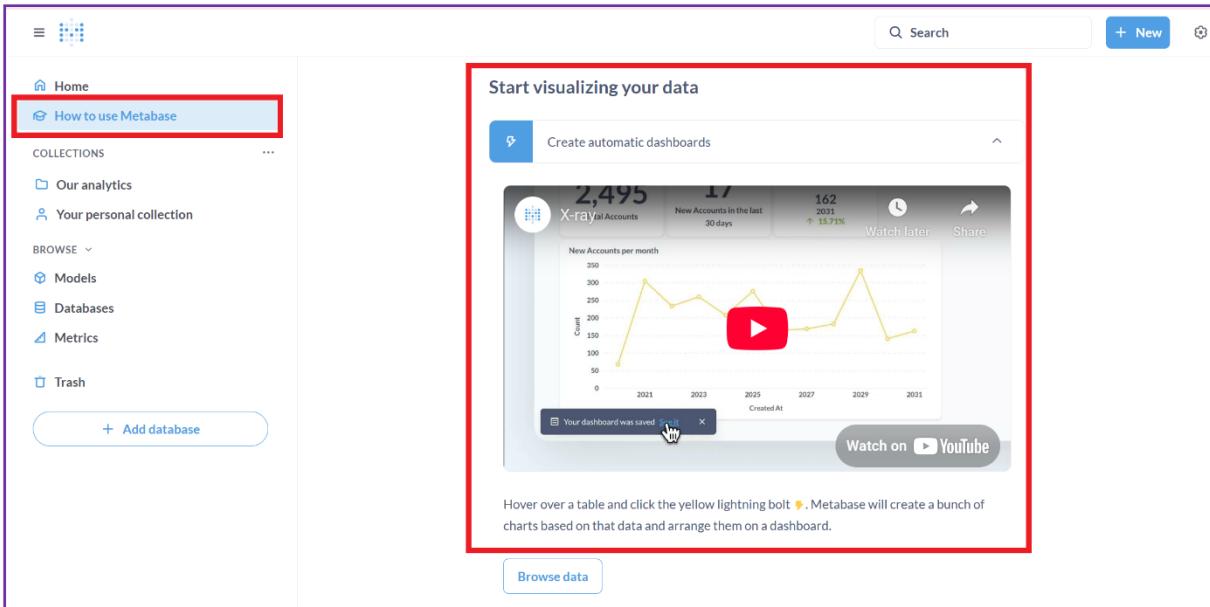
I agree with the Metabase [product terms of service](#) and [privacy policy](#). (i)

**Create Account**

# From zero to dashboard in 3 minutes!

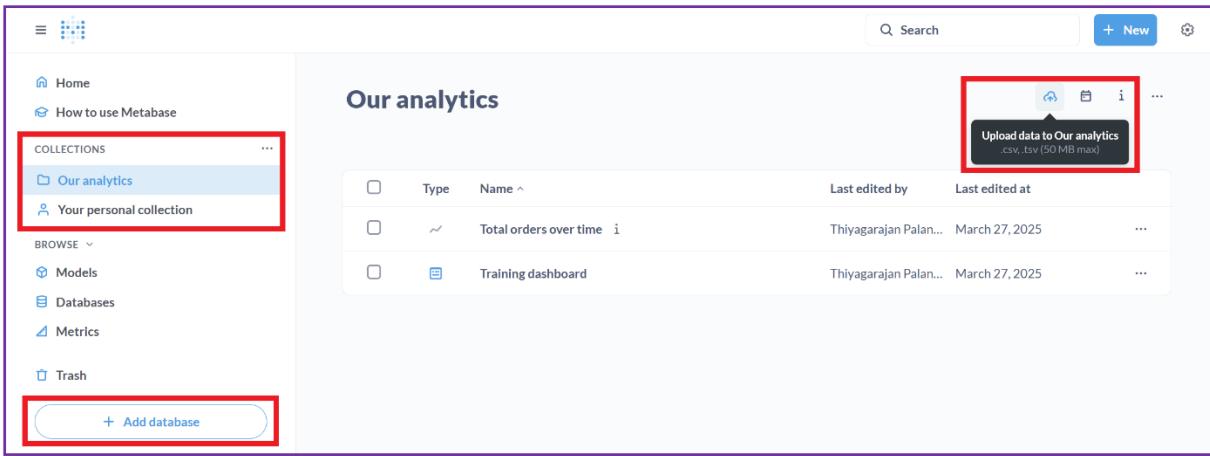


- Click on **How to use Metabase** on the homepage to access YouTube videos that explain how to use its features.



The screenshot shows the Metabase interface. On the left, there's a sidebar with navigation links: Home, How to use Metabase (highlighted with a red box), Collections, Our analytics, Your personal collection, Browse (Models, Databases, Metrics), and Trash. Below the sidebar is a button '+ Add database'. The main area is titled 'Start visualizing your data' and features a dashboard visualization. The dashboard includes a summary card with counts (2,495 X-ray accounts, 17 new accounts in the last 30 days, 162 2021), a line chart titled 'New Accounts per month' showing account growth from 2021 to 2023, and a button 'Watch on YouTube'. A tooltip says: 'Hover over a table and click the yellow lightning bolt ⚡. Metabase will create a bunch of charts based on that data and arrange them on a dashboard.' At the bottom of the main area is a button 'Browse data'.

- To upload your data for analysis, go to **Our analytics** or **Your personal collection** and click **Upload** to add .csv or .tsv files. To connect directly to a database, click **+ Add database** instead.



The screenshot shows the 'Our analytics' section of the Metabase interface. On the left, there's a sidebar with the same navigation links as the previous screenshot, plus a '+ Add database' button highlighted with a red box. The main area is titled 'Our analytics' and contains a table of existing datasets. The table has columns: Type, Name, Last edited by, and Last edited at. Two entries are listed: 'Total orders over time' and 'Training dashboard'. In the top right corner of the main area, there's a button labeled 'Upload data to Our analytics (.csv, .tsv (50 MB max))' with a red box around it. There are also other icons in the top right corner.